

Abstract of the Disclosure

5 The present invention provides methods, lightweight well cement compositions
and additives for the well cement compositions. The methods of the invention for sealing
pipe in a well bore penetrating a zone or formation which readily fractures at low
hydrostatic pressure is basically comprised of the steps of providing a lightweight cement
composition comprised of a hydraulic cement, water and an additive comprising an
10 aqueous suspension of microspheres containing a water swellable clay suspending agent,
placing the cement composition in the annulus between the pipe and the well bore and
allowing the cement composition to set.